

What is claimed is:

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1. An audio system comprising:
an audio device;
a computer for creating audio data and control data for operating the audio device; and
data transmission means for linking the audio device and the computer together to transmit data therebetween,
wherein said computer has output means for outputting the audio data and the control data to the audio device via the data transmission means,
while said audio device further comprises
a first system portion for processing audio data that are given from an audio source differed from the audio data of the computer,
a second system portion for processing the audio data given from the computer, and
mixing means for performing mixing for a plurality of the audio data, which are respectively processed by the first and second system portions.

2. An audio system comprising:
an audio device;
a computer for creating audio data and control data for operating the audio device; and
data transmission means for linking the audio device and the computer together to transmit data therebetween,

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wherein said computer has output means for outputting the audio data and the control data to the audio device via the data transmission means,

while said audio device further comprises

a first system portion for performing signal processing on audio data given from the computer, or for performing the signal processing on audio data of an audio source differed from the audio data of the computer or audio data selectively given from one of a plurality of audio sources differed from the computer,

a second system portion for performing simple signal processing, which is simple as compared with the signal processing of the first system portion, on the audio data given from the computer,

mixing means for performing mixing for a plurality of the audio data, which are respectively processed by the first and second system portions, and

means for turning off the mixing of the mixing means when the first system portion performs the signal processing selectively on the audio data of the computer.

3. An audio system according to claim 1, wherein the computer further comprises

display means for displaying an operation panel for operating the audio device,

means for outputting the control data to the audio device via the data transmission means on the basis of operation of the operation panel,

means for receiving information regarding operation made by the audio device via the data transmission means as the control data so as to reflect it in content of the operation panel, and

means for outputting the audio data to the audio device via the data transmission means.

4. An audio system according to claim 2, wherein the computer further comprises

display means for displaying an operation panel for operating the audio device,

means for outputting the control data to the audio device via the data transmission means on the basis of operation of the operation panel,

means for receiving information regarding operation made by the audio device via the data transmission means as the control data so as to reflect it in content of the operation panel, and

means for outputting the audio data to the audio device via the data transmission means.

5. An audio system according to claim 1, wherein the data transmission means is configured by a single serial bus cable and its interface.

6. An audio system according to claim 2, wherein the data transmission means is configured by a single serial bus cable and its

interface.

7. An audio system according to claim 3, wherein the data transmission means is configured by a single serial bus cable and its interface.

8. An audio system according to claim 4, wherein the data transmission means is configured by a single serial bus cable and its interface.

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A2 } 9. An audio device comprising:
at least one audio source;
an interface for inputting audio data supplied from a computer;
audio processing means for processing audio data given from the audio source and the audio data given from the computer;
mixing means for performing mixing between the audio data processed by the audio processing means and the audio data which are input thereto via the interface; and
speaker means for producing sound based on output of the mixing means.

10. An audio device comprising:
input means for inputting audio data supplied from an audio source differed from a computer;
an interface for inputting audio data supplied from the computer;

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mixing means for performing mixing between the audio data input by the input means and the audio data which are input thereto via the interface; and

speaker means for producing sound based on output of the mixing means.

11. A machine-readable media storing an audio control program that causes a computer to actualize an audio control system comprising:

graphical user interface means for operating the audio device, the graphical user interface means actualizing an operation to select an audio source for the audio device and an operation to perform mixing on audio data of the selected audio source and audio data given from the computer;

means for outputting control data to the audio device on the basis of operation of the graphical user interface means;

means for receiving information regarding operation of the audio device as the control data so as to reflect it in content of graphical user interface; and

means for outputting the audio data to the audio device.

12. An audio system comprising:

an audio device for producing first audio data in connection with at least one audio source,

serial bus means, and

a personal computer for producing second audio data and control data,

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wherein the audio device performs mixing between the first audio data and the second audio data, which are transmitted thereto via the serial bus means, on the basis of the control data, so that speaker means produces sound based on mixing result.

13. An audio system according to claim 12, wherein the audio device further comprises

selection means for selecting one of the first audio data and the second audio data,

signal processing means for performing signal processing on output of the selection means,

first digital-to-analog conversion means for converting output of the signal processing means to first analog signals,

second digital-to-analog conversion means for converting the second audio data given from the personal computer to second analog signals, and

analog mixing means for performing analog mixing between the first analog signals and the second analog signals,

whereby the speaker means produces sound based on result of the analog mixing.

14. An audio system according to claim 13, wherein the audio device further comprises

switch means for disconnecting the second digital-to-analog means from the analog mixing means when the selection means selects the second audio data.

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15. An audio system according to claim 12, wherein the audio device further comprises
- selection means for selecting one of the first audio data and the second audio data,
 - signal processing means for performing signal processing on output of the selection means,
 - adjustment means for performing adjustment on the second audio data with respect to sampling parameters,
 - digital mixing means for performing digital mixing between output of the signal processing means and output of the adjustment means, and
 - digital-to-analog conversion means for converting result of the digital mixing to analog signals,
- whereby the speaker means produces sound based on the analog signals.
16. An audio system according to claim 12, wherein the serial bus means corresponds to a universal serial bus.
17. An audio system according to claim 12, wherein the serial bus means corresponds to an IEEE 1394 serial bus.
18. An audio system according to claim 12, wherein the audio source corresponds to a tuner or a recording media.

19. An audio system according to claim 12, wherein the personal computer uses graphical user interface (GUI) for creation of the control data for controlling operation of the audio device.

20. An audio system according to claim 12, wherein the signal processing corresponds to a graphic equalizer process and/or a sound field control process.

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